

# Rushil Shah

Portfolio - <https://rushilshah23.github.io>

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## Technical Skills:

- **Languages:** JavaScript, TypeScript, Python
- **Databases:** SQL, Firebase, MongoDB
- **Frameworks:** Node JS, Express JS, Next JS, Flask
- **Others:** Git, Web Sockets, Linux, Docker, RabbitMQ, Microsoft Azure
- **Fundamentals:** SOLID Principles, Design Patterns, Refactoring, Test Driven Development

## Qualifications:

- **B.E in Information Technology (Mumbai University) - 2022 - 8.93 CGPA**

## Experience:

- **Datacurate Technologies, Mumbai - Associate Consultant (June 2022- Present):**

### 1. HDFC ERGO, Mumbai

- Built a **Flask app** with smart auto-correct and complex quote calculations. Created an **OCR-based** text extraction system that handles both digitally generated and scanned PDFs. This **automation replaced manual data collection**, making the process much more accurate.
- Migrated a legacy frontend from plain HTML, CSS, and JavaScript to **Next.js**. This change made the codebase easier to maintain and improved page load times by **30%**.
- Developed quote generators for various insurance products using **design patterns**. This upgrade cut the policy issuance time from **8 days to instantaneous**, significantly speeding up the process.
- **Refactored** and cleaned up the core system, eliminating **code smells** and **technical debt**. Implemented thorough **unit and integration testing**, which improved code scalability and reliability.

### 2. Leading Insurance Company in India, Mumbai

- Developed ETL pipeline for complex Data Marts used in analytical dashboards and modified the existing codebase which improved the efficiency by **30%**.
- Developed automated wrapper module responsible for the complete regular data loading with parallel processing which further reduced the data loading time by **50%**.
- Debugged the whole legacy DDS and fixed critical infrastructure bugs.

- **IAHV (Art of Living) - Flutter Developer Intern, Mumbai (August 2020-March 2021):**

- Led the team in integrating and debugging a mobile project management app for Watershed Management, developed with **Flutter** for the client-side, **Node.js** for the backend, and **Firebase** for the database. Key modules included a Google Drive-like Document Manager and a Feedback System.

## Personal Projects:

- **Multiplayer Tic Tac Toe Game:** Next JS, Node JS based game leveraging **microservice architecture**, employing **RabbitMQ** as a message broker. Utilized **Vanilla WebSocket** with heartbeat functionality, supported by three microservices and a proxy server. Integrated **MongoDB** for seamless data management secured with an **advanced authentication** microservice system.
- **AI Proctoring Examination System:** React JS, Node JS, **Firebase** based full-fledged CMS web application to **detect** various **malpractices** during examination using **TensorFlow**, manage exams, as per user role and mail results of exam to the students with secured **JWT** Authentication system and frontend powered by **Material UI** and state managed using **Redux**.

## Achievements and Publications:

- Microsoft Azure AZ-900 [\(Microsoft\)](#)
- Winner at Mumbai Hackathon (2022) [\(Zerodha/Frappe\)](#)
- Smart Home Automation System [\(HBRP Publications\)](#)
- Attendance System using RFID Technology [\(HBRP Publications\)](#)